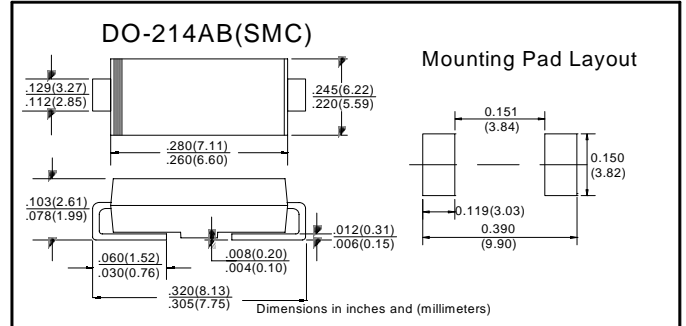


## Schottky Rectifier

### ■ Features

- $I_o$  5.0A
- $V_{RRM}$  20V-200V
- High surge current capability
- ✧ UL Recognized File # E-326243
- ✧ For surface mounted application
- ✧ Metal to silicon rectifier, majority carrier conduction
- ✧ Low forward voltage drop
- ✧ Easy pick and place
- ✧ High surge current capability
- ✧ Plastic material used carriers Underwriters Laboratory Classification 94V-0
- ✧ Epitaxial construction
- ✧ High temperature soldering : 260°C/10 seconds at terminals
- ✧ AEC-Q101 qualified

### ■ Outline Dimensions and Mark



### ■ Applications

- Rectifier

### ■ Mechanical Data

- ✧ Case: Molded plastic
- ✧ Terminals: Pure tin plated, lead free
- ✧ Polarity: Indicated by cathode band
- ✧ Packaging: 16mm tape per EIA Std RS-481
- ✧ Weight: 0.21 gram

### ■ Maximum Ratings and Electrical Characteristics

Rating at 25 °C ambient temperature unless otherwise specified.

Single phase, half wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20%

Type Number	Symbol	SS 52	SS 53	SS 54	SS 55	SS 56	SS 59	SS 510	SS 515	SS 520	Unit
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	20	30	40	50	60	90	100	150	200	V
Maximum RMS Voltage	$V_{RMS}$	14	21	28	35	42	63	70	105	140	V
Maximum DC Blocking Voltage	$V_{DC}$	20	30	40	50	60	90	100	150	200	V
Maximum Average Forward Rectified Current	$I_{F(AV)}$	5									A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	$I_{FSM}$	120									A
Maximum Instantaneous Forward Voltage (Note 1) @ 5 A	$V_F$	0.55			0.75		0.85		0.95		V
Maximum Reverse Current @ Rated VR $T_A=25\text{ }^\circ\text{C}$ $T_A=100\text{ }^\circ\text{C}$ $T_A=125\text{ }^\circ\text{C}$	$I_R$	0.5				0.3				mA	
		20		10		-					
		-				5					
Typical Thermal Resistance	$R_{\theta JL}$	17									$^\circ\text{C/W}$
	$R_{\theta JA}$	50									
Operating Temperature Range	$T_J$	- 55 to + 150									$^\circ\text{C}$
e g n a R e r u t a s t e p m e T e g a r o t 05 1 + o t 5 5 $^\circ\text{C}$											

Note 1: Pluse Test with PW=300 usec, 1% Duty Cycle



Characteristics(Typical)

FIG.1 FORWARD CURRENT DERATING CURVE

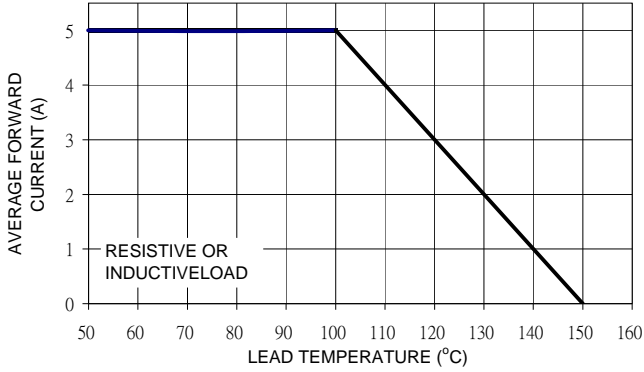


FIG. 2 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

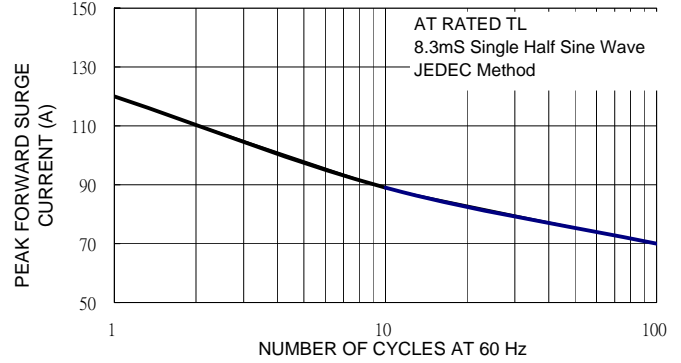


FIG. 3 TYPICAL FORWARD CHARACTERISTICS

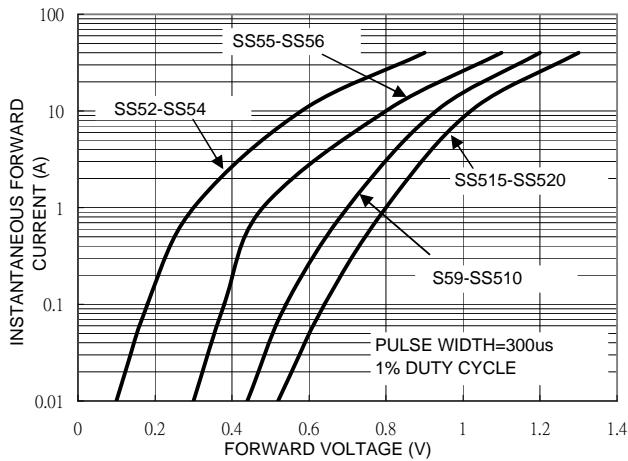


FIG. 4 TYPICAL REVERSE CHARACTERISTICS

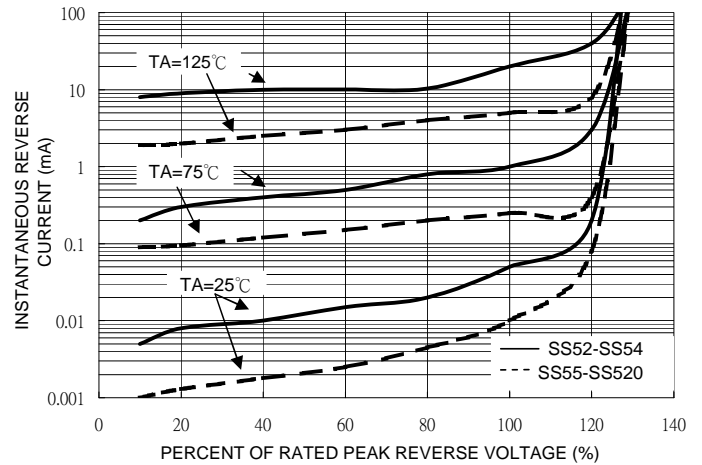


FIG. 5 TYPICAL JUNCTION CAPACITANCE

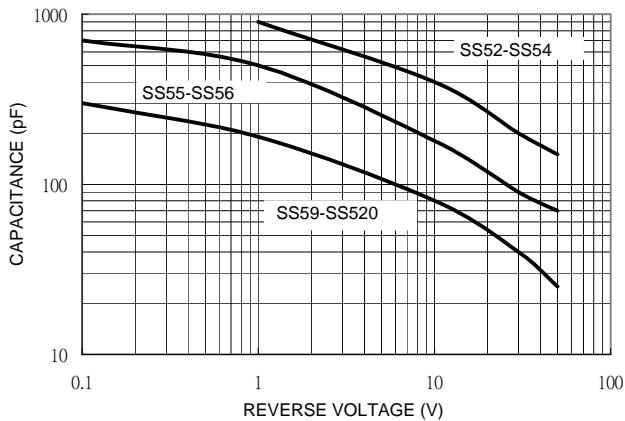


FIG. 6 TYPICAL TRANSIENT THERMAL IMPEDANCE

